## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

## Listing of Claims:

 (Previously Presented) A system embodied on a computer-readable storage medium that facilitates decision tree learning, comprising:

a learning component that generates non-standardized data having a non-zero mean that relates to a split in a decision tree; and

a scoring component that assigns a score to the split as if the non-standardized data at a subset of leaves of the decision tree had been at least one of shifted or scaled, the non-standardized data is at least one of virtually shifted through omission of a matrix operation or virtually scaled through modification of a subset of elements relating to a covariance matrix, the score is at least one of stored on a computer-readable storage medium, displayed on a display device, employed by one or more processes executing on one or more processors, or transmitted between two or more processes executing on one or more processors.

- (Previously Presented) The system of claim 1, further comprising a modification component that for a respective candidate split score, the data is modified by shifting or scaling the data and a new score is computed on the modified data.
- (Original) The system of claim 1, further comprising an optimization component that analyzes the data and decides to treat the data as if it was: (1) shifted, (2) scaled, or (3) shifted and scaled.
- (Original) The system of claim 1, the scoring component is employed for evaluating a data mining application.
- (Original) The system of claim 1, the learning component processes continuous variable data or data subsets.

- 6. (Previously Presented) The system of claim 1, the scoring component generates evaluation data indicating how well a model predicts continuous target data and whether or not the model is a suitable predictor for the target data.
- (Previously Presented) The system of claim 6, the evaluation data is employed by users or subsequent automated components when determining model performance or selecting between models or model subsets.
- (Original) The system of claim 1, the scoring component includes at least one of a data sample processor, a scoring constant, a gamma function, a matrix value, a vector value, and a mean value for data or a data subset.
- (Previously Presented) The system of claim 1, the scoring component computes a Bayesian linear regression score as:

$$\begin{split} score &= \pi^{-n/2} \binom{\frac{v}{v+n}}{v+n}^{1/2} \frac{\Gamma(\frac{\alpha+n}{2})}{\Gamma(\frac{\alpha}{2})} \left( \beta^{\frac{\alpha+r}{2}} \right) \sqrt[4]{\frac{1}{n}} \prod_{n=1}^{N} \binom{\frac{\alpha+n}{2}}{\Gamma(\frac{n}{n})}, \\ & \mathbf{T_n} = \mathbf{T_0} + \mathbf{S_n} + \mathbf{U_n} \\ & \mathbf{U_n} = \frac{v_{lin}}{v_{l+r}} (\overline{\mu}_0 - \overline{m}_n) (\overline{\mu}_0 - \overline{m}_n)' \\ & \mathbf{S_n} = \sum_{i=1}^{n} (\overline{x}_i - \overline{m}_n) (\overline{x}_i - \overline{m}_n)' \\ & \overline{m}_n = \frac{1}{n} \sum_{i=1}^{n} \overline{x}_i \end{split}$$

wherein  $\mu$  represents a mean,  $\alpha$  denotes a degree of freedom,  $\beta$  connotes a pre-defined constant, bold-face symbols denote square matrices, symbols with overlines denote (one dimensional) vectors, the ' symbol denotes transpose, and  $| \ |$  denotes determinant, n represents a number of records in the data,  $\Gamma$  is a gamma function satisfying  $\Gamma(x) = (x-1)$   $\Gamma(x-1)$ ,  $\overline{x_i}$  denotes a vector of values for relevant variables in an *ith* case in the data, the superscripts TR and R in  $T_n^{TR}$  and  $T_n^{R}$  denote that the matrices are defined with respect to target and regressor variables in a first case and regressor variables in a second case.

- 10. (Cancelled).
- 11. (Previously Presented) A system embodied on a computer-readable storage medium that facilitates data mining, comprising:

means for automatically generating a set of non-standardized data associated with a set or subset of data relating to a continuous variable, the non-standardized data associated with a split in a decision tree; and

means for automatically assigning a score to the split as if the non-standardized data were at least one of shifted or scaled, the non-standardized data is at least one of virtually shifted by omitting a matrix operation from automatically scoring the split or virtually scaled by modifying a subset of elements relating to a covariance matrix, the score is at least one of stored on a computer-readable storage medium, displayed on a display device, employed by one or more processes executing on one or more processors, or transmitted between two or more processes executing on one or more processors.

- 12. (Previously Presented) The system of claim 11, further comprising means for determining whether to perform the shifting operation and means for determining whether to perform the scaling operations.
- 13. (Previously Presented) The system of claim 11, further comprising means for shifting or scaling the set or subset of data relating to the continuous variable.

14. (Previously Presented) A computer-implemented method that facilitates decision tree learning, comprising:

determining whether to perform a virtual shifting operation on a non-standardized set of data with a non-zero mean associated with leaves of a decision tree;

determining whether to perform a virtual scaling operation on the non-standardized set of data; and

automatically assigning scores to the leaves based in part upon the determinations of whether to perform the virtual shifting and virtual scaling operations, the virtual shifting operation includes omitting a matrix operation from the assignment of scores and the virtual scaling operation includes modifying a subset of elements relating to a covariance matrix, the scores are at least one of stored on a computer-readable storage medium, displayed on a display device, employed by one or more processes executing on one or more processors, or transmitted between two or more processes executing on one or more processors.

- (Previously Presented) The method of claim 14, further comprising performing at least one actual scaling or actual shifting operation on the non-standardized set of data.
- (Original) The method of claim 14, further comprising processing a model in a form of a linear regression.
- 17. (Cancelled).
- 18. (Cancelled).
- (Original) The method of claim 14, determining at least one constant value before assigning the scores.
- (Original) The method of claim 19, the constant value relates to diagonal elements of a
  matrix and is assigned a value of about 0.01.

- 21. (Previously Presented) A computer readable storage medium that includes a tangible component that has a data structure stored thereon, comprising:
- a first set of data fields describing a non-standardized set or subset of data relating to a continuous variable;
- a second set of data fields describing a decision tree and associated branches; and a third set of data fields describing a score for the branches, the score computed for the branches as if the non-standardized set or subset of data had been shifted or scaled, the non-standardized set or subset is at least one of virtually shifted by omission of a matrix operation from the computed score or virtually scaled by modification of a subset of elements relating to a covariance matrix, the score is at least one of stored on a computer-readable storage medium, displayed on a display device, employed by one or more processes executing on one or more processors, or transmitted between two or more processes executing on one or more processors.
- 22. (Original) The computer readable medium of claim 21, further comprising a data field to indicate at least one of a virtual shifting operation and a virtual scaling operation.
- 23. (Previously Presented) The computer readable medium of claim 21, further comprising a data field to indicate at least a portion of the non-standardized set or subset of data to be shifted or scaled.
- (Cancelled)